IN THE CLAIMS

Please amend the claims as follows:

1. (Previously Presented) A plasma processing apparatus comprising:

a vacuum chamber including a processing region configured airtightly closable in which predetermined processing is to be applied on a substrate to be processed by action of plasma on the substrate to be processed and of which an interior is exhausted by means of an exhaust apparatus and a space separated from said processing region;

a bottom electrode provided in said vacuum chamber and configured to have the substrate to be processed placed thereon;

a top electrode provided to face said bottom electrode;

a processing gas supply mechanism configured to supply predetermined processing gas into said processing region;

a first radio-frequency power source configured to supply a radio-frequency power with a predetermined first frequency to said bottom electrode;

a second radio-frequency power source configured to supply to said bottom electrode a radio-frequency power with a second frequency that is lower than the first frequency;

a first power feeder having a first matching device that performs impedance matching for the radio-frequency power to be supplied to said bottom electrode from said first radio-frequency power source, said first power feeder being configured to feed the radio-frequency power with the first frequency to said bottom electrode from a center portion of said bottom electrode; and

a second power feeder having a second matching device that is structured as a separate body from said first matching device and performs impedance matching for the radio-frequency power to be supplied to said bottom electrode from said second radio-frequency power source, said second power feeder being configured to feed the radio-

frequency power with the second frequency to said bottom electrode from an outer peripheral portion of said bottom electrode,

wherein at least a portion of said first matching device is disposed in said space.

- 2. (Cancelled).
- 3. (Cancelled).
- 4. (Previously Presented) A plasma processing apparatus as set forth in claim 1, wherein said first matching device is electrically connected to said bottom electrode via a non-coaxially structured feeding rod.
- 5. (Previously Presented) A plasma processing apparatus as set forth in claim 1, wherein the first frequency is 13.56 MH_z to 150 MH_z .
- 6. (Previously Presented) A plasma processing apparatus as set forth in claim 1, wherein the second frequency is 0.5 MHz to 13.56 MHz.
- 7. (Previously Presented) A plasma processing apparatus as set forth in claim 1, wherein capacitance of said bottom electrode is set to 50 pF or less.
- 8. (Previously Presented) A plasma processing apparatus as set forth in claim 1, wherein the substrate to be processed is etched by the action of the plasma on the substrate to be processed.
- 9. (Previously Presented) A plasma processing apparatus as set forth in claim 1, comprising:

said bottom electrode being disposed on an insulator plate; and said space being formed between said insulator plate and a bottom of said chamber.

10. (Currently Amended) A plasma processing apparatus as set forth in claim 1, comprising:

said <u>a</u> non-coaxially structured feeding rod being located entirely within said chamber.